



## TRANSPORTATION CABINET

**Ernie Fletcher**  
Governor

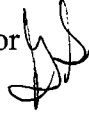
Frankfort, Kentucky 40622  
www.kentucky.gov

**Bill Nighbert**  
~~Acting~~ Secretary

**Marc Williams**  
Commissioner of Highways

### Construction Memo No. 3-06

**MEMO TO:** Chief District Engineer  
TEBM's for Construction  
District Construction Engineer  
Resident Engineers  
Active Consultant Engineers

**FROM:** Greta Smith, P. E. Acting Director  
Division of Construction 

**DATE:** March 30, 2006

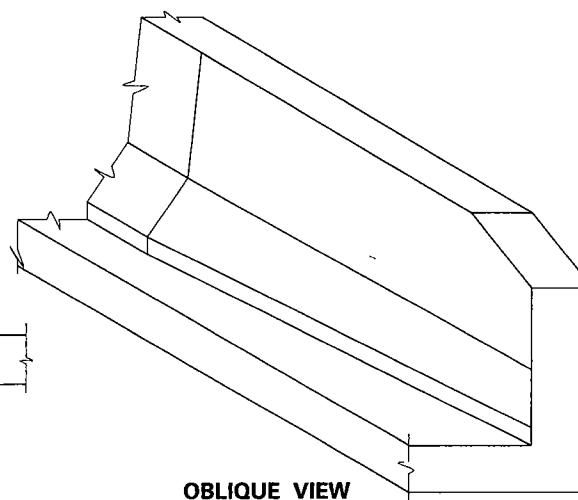
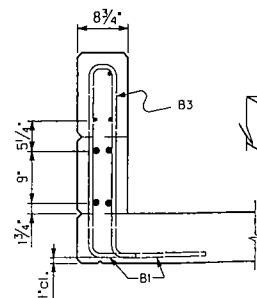
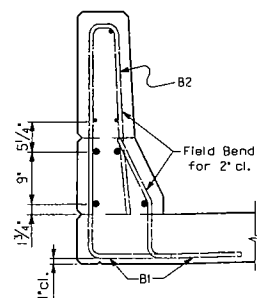
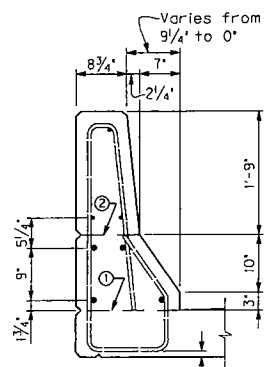
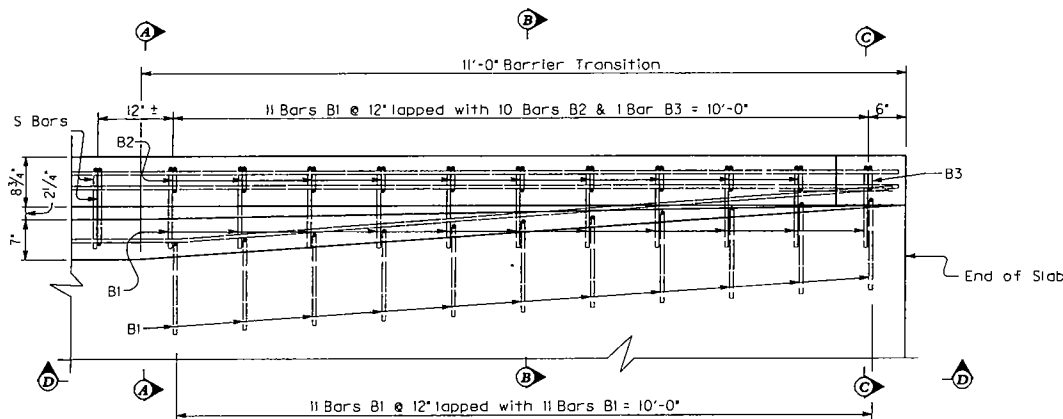
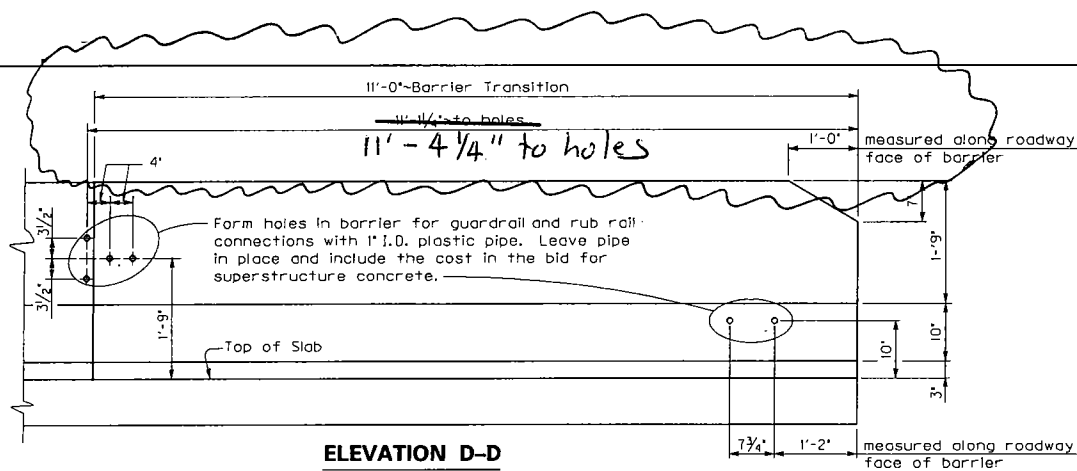
**SUBJECT:** Guardrail Bridge End Connector Clarification

The purpose of the memo is to correct a dimension error in the Standard Drawings BGX-010-04 and BGX-011-04, respectively. Both of these drawings show the dimension from the end of the bridge barrier wall to the centerline of the bolt hole for guardrail terminal section as 11'-1 1/4". **This is not correct.** The correct dimension is 11'-4 1/4". A copy of both Standard Drawings is included with this memo outlining this correction.

Please make note of this change and use the correct dimension of 11'-4 1/4" when forming the bolt holes for guardrail to bridge end connection.

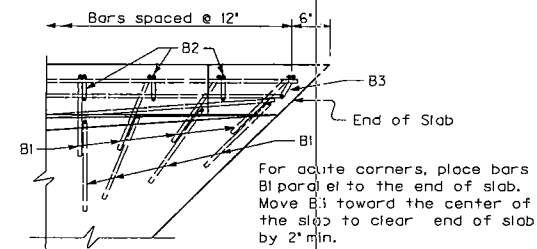
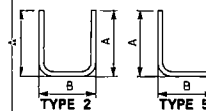
#### Attachments

|      |                 |                        |       |
|------|-----------------|------------------------|-------|
| c.c. | Marcie Matthews | Duane Thomas           | KRMCA |
|      | Jim Rummage     | Al Frank               |       |
|      | Rick Stansel    | C. O. Engineers        |       |
|      | Chuck Knowles   | KAHC                   |       |
|      | Wesley Glass    | FHWA                   |       |
|      | David Kratt     | Final Estimate Section |       |



## BILL OF REINFORCEMENT

| MARK | TYPE | NO. | SIZE | LENGTH  | LOCATION          | A       | B       |
|------|------|-----|------|---------|-------------------|---------|---------|
|      |      |     |      | FT. IN. |                   | FT. IN. | FT. IN. |
| B1e  | 5s   | 22  | 5    | 2 11    | Slab into Barrier | 1 8     | 1 4     |
| B2e  | 2s   | 10  | 5    | 5 7     | Barrier           | 2 8     | 0 5     |
| B3e  | 2s   | 1   | 5    | 4 5     | Barrier           | 2 1     | 0 5     |



## PLAN OF SKEWED END

## ESTIMATE OF QUANTITIES

Steel Reinforcement, Epoxy Coated 140 LBS.  
Concrete, Class 'AA' 1.0 C.Y.

NOTE: The concrete quantity is the concrete above the gutter line and 11'-0" from the end of the slab. This estimate of quantities is for one barrier transition and for information only. Barrier transition quantities are included in the estimate of quantities for the superstructure.

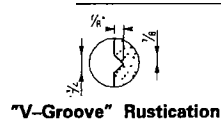
KENTUCKY  
DEPARTMENT OF HIGHWAYS

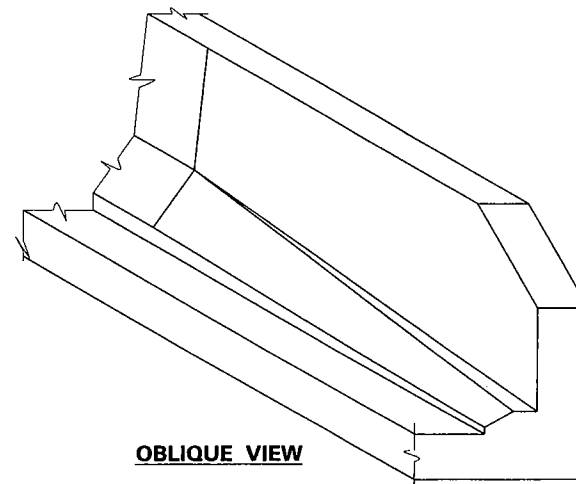
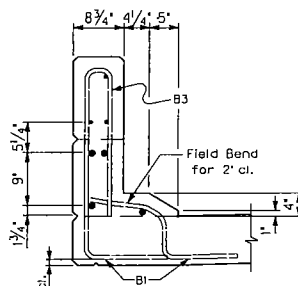
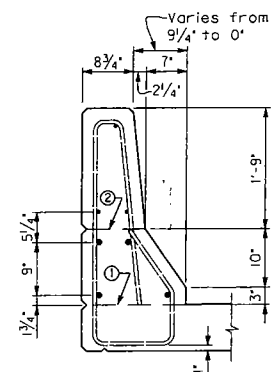
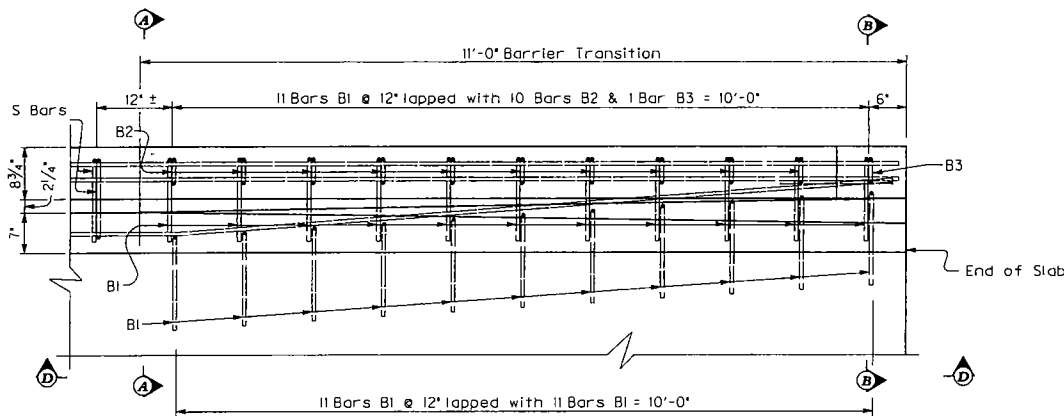
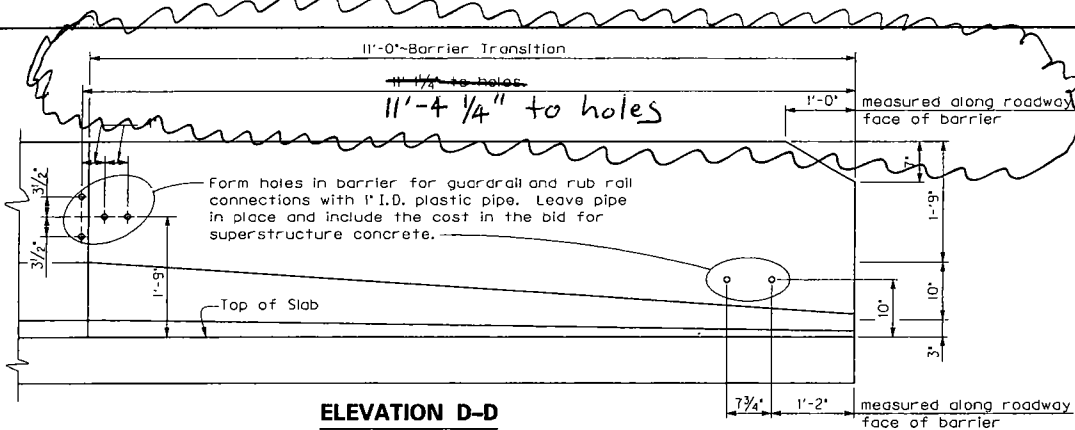
## BARRIER TRANSITION

STANDARD DRAWING NO. BGX-010-04

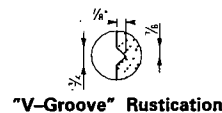
DATE: 12-2-02  
BY: [Signature]  
DATE: 12-2-02  
BY: [Signature]

- Mandatory roughened construction joint. Concrete above this joint is to be placed after slab has been properly cured.
- Permissible construction joint and bottom of barrier. Construction joint is required if construction joint is used.





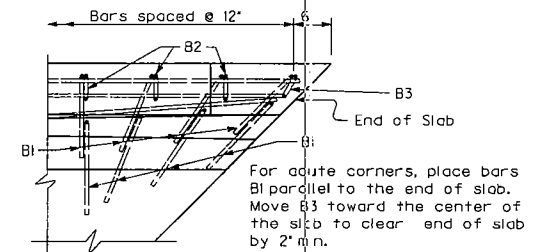
- ① Mandatory roughened construction joint. Concrete above this joint is to be placed after slab has been properly cured.
- ② Permissible construction joint and bottom of 1/4" open joint in top of barrier. "V-Groove" rustication joint is required if construction joint is used.



| BILL OF REINFORCEMENT |      |     |      |         |                   |         |         |   |   |
|-----------------------|------|-----|------|---------|-------------------|---------|---------|---|---|
| MARK                  | TYPE | NO. | SIZE | LENGTH  | LOCATION          | A       | B       |   |   |
|                       |      |     |      | FT. IN. |                   | FT. IN. | FT. IN. |   |   |
| B1e                   | 5s   | 22  | 5    | 2 11    | Slab into Barrier | 1       | 8       | 1 | 4 |
| B2e                   | 2s   | 10  | 5    | 5 7     | Barrier           | 2       | 8       | 0 | 5 |
| B3e                   | 2s   | 1   | 5    | 4 5     | Barrier           | 2       | 1       | 0 | 5 |

**TYPE 2**

**TYPE 5**



**PLAN OF SKEWED END**

| ESTIMATE OF QUANTITIES            |          |
|-----------------------------------|----------|
| Steel Reinforcement, Epoxy Coated | 140 LBS. |
| Concrete, Class "A"               | 1.0 C.Y. |

NOTE: The concrete quantity is the concrete above the gutter line and 11'-0" from the end of the slab. This estimate of quantities is for one barrier transition and for information only. Barrier transition quantities are included in the estimate of quantities for the superstructure.

| KENTUCKY<br>DEPARTMENT OF HIGHWAYS |         |
|------------------------------------|---------|
| BARRIER TRANSITION<br>END DRAINAGE |         |
| STANDARD DRAWING NO. BGX-011-04    |         |
| SUBMITTAL                          | 12-2-02 |
| DESIGNED BY                        | DATE    |
| CHECKED BY                         | 12-2-02 |
| APPROVED BY                        | DATE    |